



Home Theatre Reference  
Automatic Voltage Stabilizer  
AVS 2000

Thank you for purchasing Monster Power's Home Theatre Reference Automatic Voltage Stabilizer AVS 2000. AVS 2000 is designed to stabilize power line fluctuations and maintain constant voltage to your home theatre.

Voltage sags (below the standard RMS value of 120 volts) are often caused by power-hungry appliances like clothes washers, air conditioners, and electric heaters, which draw more power (over 1500 watts) than your house was designed to support. This can have a direct effect on home theatre components, including amplifiers and two piece projection systems, which require a lot of power to operate at an optimum performance level.

As a result, the picture can lose brightness and suddenly shrinkin size. Amplifiers change gain structure which results

in nasty distortions. They also won't deliver peak power, dropping from 100 watts to as low as 60 watts, for example. Your home theatre is very power hungry, too, often drawing twice as much power as a washer and air conditioner combined. This can cause even more voltage sags and ultimately, inferior home theatre performance.

With AVS 2000, all your high power devices will maintain the stability needed to deliver peak power and performance. You'll enjoy the smoothest, most natural sound and the sharpest, brightest picture possible with vivid color. And, thanks to AVS 2000's sequential turn-on feature, your high power loads can operate at peak performance without causing unnecessary electrical stress that can often pop a circuit breaker or damage your components.

## About Noel Lee, The Head Monster

The driving force behind the success of the AVS 2000 and the entire Monster Power family is Noel Lee, The Head Monster. Noel is best known for popularizing the concept of high performance audio cable over 20 years ago with his creation of Monster Cable. Originally a laser-fusion design engineer at Lawrence Livermore National Laboratory and later a touring musician, Noel has invented or co-invented over 125 U.S. and international patents and drives the explosive growth of The Monster Group into more than 80 countries worldwide. Monster Power is his realization of a long-nurtured vision of making affordable power solutions that deliver the best possible sound and picture.



The Head Monster

# AVS 2000 FEATURES

## AVS 2000 – FRONT PANEL

1. **Input/Output Voltage Meter:** Displays input or output voltage.
2. **Voltage Correction Meter:** Continuously displays the amount of voltage being increased or reduced to maintain 120 volts.
3. **Current Usage Meter:** Displays current draw.
4. **Ground OK LED:** Indicates the wall outlet that AVS 2000 is plugged into is properly grounded.
5. **Surge Protected LED:** Indicates AVS 2000's internal surge protection is active.
6. **Line and Neutral OK LED:** Indicates the wall outlet that AVS 2000 plugged into is properly wired.
7. **Normal Voltage Condition:** Indicates input voltage is between 80 and 140 volts.
8. **Switched Outlets On LED:** Indicates components plugged into the "switched" outlets will receive power when the ON button is pressed.
9. **Abnormal Voltage Condition:** Indicates input voltage has dropped below 80 volts or has risen above 140 volts or that the system is waiting for stabilization.
10. **Sequential Power On/Off Button:** Press to provide AC power to switched outlets.
11. **Input Voltage/Readout Illumination:** Adjusts the illumination level of the LED meters (depress and hold). Toggles input/output voltage meter (depress and release).

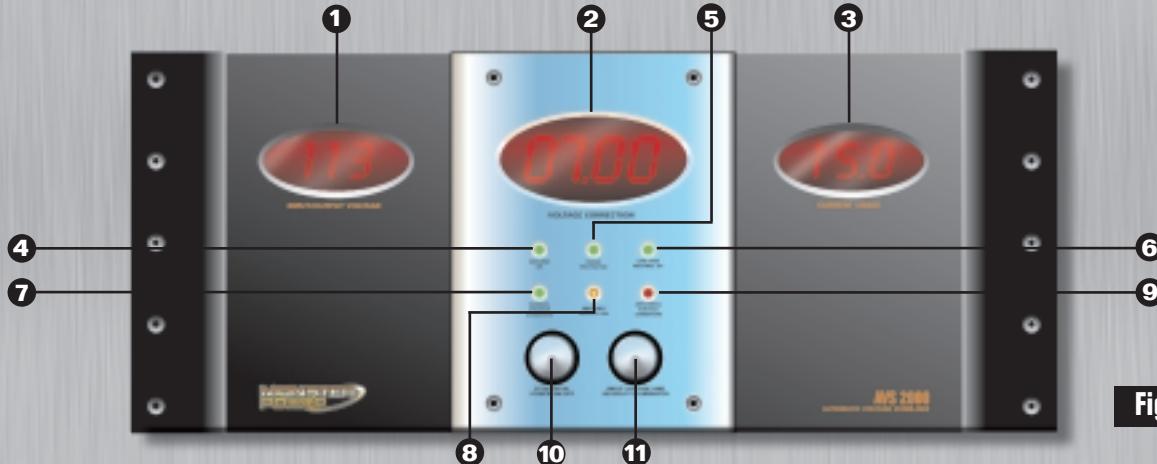


Figure 1

# AVS 2000 FEATURES

## AVS 2000 – BACK PANEL

1. **Unswitched Outlets:** Provide power to components or Monster PowerCenters regardless of the status of the Sequential Power On/Off button (10).
2. **Switched Outlets:** Provide power to connected components only when the Sequential Power On/Off button (10) is initiated.
3. **Delay Programming:** Sets the powerup delay time for the switched outlets (see Fig.3, below left).
4. **3-30v DC In:** Allows AVS 2000's "power on" function to be controlled by other remote enabled units (such as the Monster Power® Home Theater Reference HTS 5000 PowerCenter).
5. **6-12v DC Out:** Allows AVS 2000 to control other remote enabled units "power on" function.
6. **Thermal Circuit Breaker:** Protects the AVS 2000 from power overload.
7. **Ground Post:** Provides a ground reference point for ungrounded components.

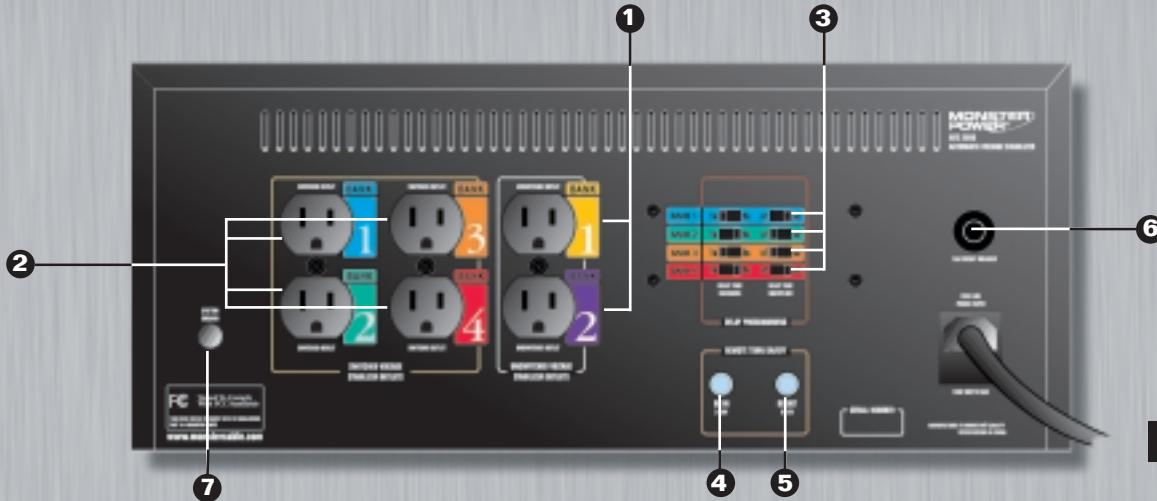


Figure 2

# SWITCHED OUTLETS

## OUTLET PROGRAMMING

Outlet banks 1-4 of your AVS 2000 are “switched” outlets. This means you can program them for sequential turn-on. Sequential turn-on is one of AVS 2000’s key features, helping maintain the peak performance of your components. Without sequential turn-on, you’d power all your devices at once, causing unnecessary electrical stresses known as “turn-on surge.” Turn-on surge can overheat system connections, pop circuit breakers, and degrade overall system performance. By sequentially powering your high power loads, you can prevent turn-on surges and deliver all the stable voltage needed to maintain peak performance.

The four switched outlets located on the back of the AVS 2000 can be individually programmed to delay power-up between 1 to 6 seconds. This means in order to program each outlet, you must use the slide switches seen in Figure 3.

The Delay Time Multiplier will double the time selected for that bank when set to x2.

The Delay Time switches select the delay time for that bank.

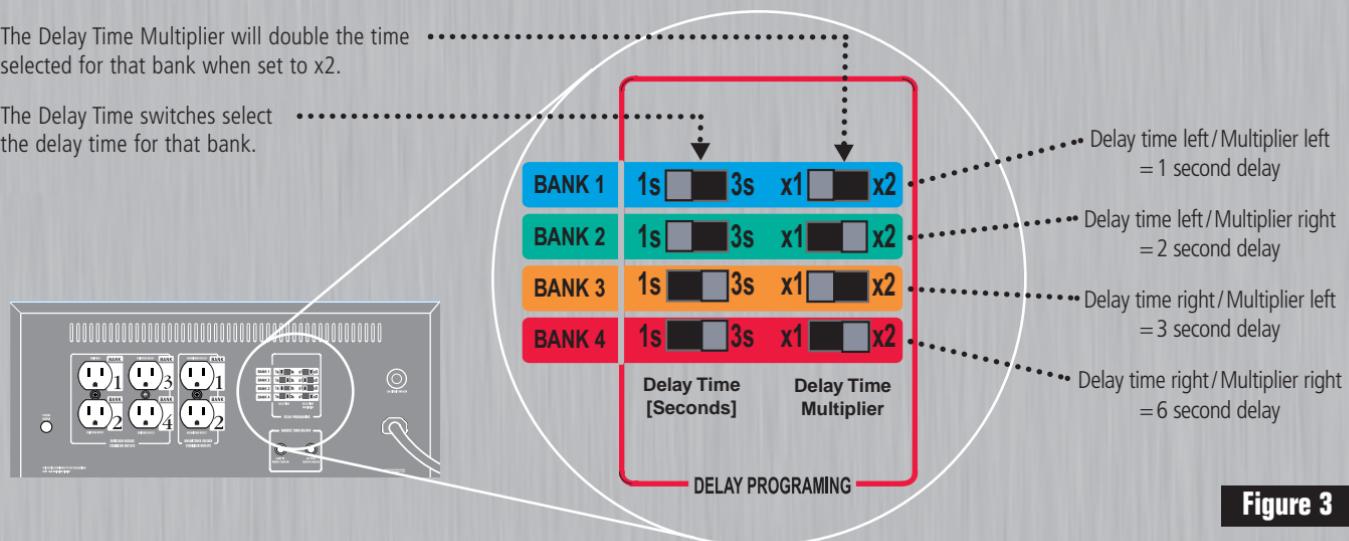


Figure 3

# SAFETY PRECAUTIONS

## WARNING – Power Sources

Do not plug your Monster AVS 2000 into a power outlet that differs from the source indicated for safe use on the Monster AVS 2000. If you don't know the type of electrical power that is supplied to your home, please consult your local power company.

## WARNING – Grounding and Polarization

**A.** Your Monster AVS 2000 has a three-wire grounding-type AC plug (a three-prong plug). This plug is designed to be inserted into a grounding-type outlet only. If this plug doesn't fit directly inside your outlet, do not attempt to force it into the outlet. Contact a local electrician to install the proper polarized outlet. Never attempt to dismantle the plug in any way (or to alter an extension cord) to make it fit into a two-prong outlet. Do not attempt to defeat the grounding feature by using a 3-to-2 prong adapter. Instead, call a local electrician to install a properly grounded outlet.

**B.** If you use rooftop devices such as satellite dishes, antennas, or any other component with wire that connects to your AVS 2000, be sure the wire(s) is properly grounded. Use grounding techniques specified in Section 810 of the National Electrical Code (NEC), ANSI/NFPA 70 (in Canada, Part 1 of the Canadian Electrical Code). This protects against voltage surges and static charges. Do not place any part of an antenna near overhead power lines, or any other power circuit. Do not touch any power line or power circuit. Doing so may cause you severe physical injury and possibly result in death.

## WARNING – Storm Precautions

In the event of a lightning storm, immediately disconnect incoming signal and power lines (e.g., cable and telephone).

## WARNING – No User Serviceable Parts Inside

If, for any reason, your Monster AVS 2000 is not operating properly, do not remove any part of the unit (cover, etc.) for repair. Unplug the unit and consult this owner's manual for warranty and service information.

## CAUTION – Exposure To Heat

Do not expose your Monster AVS 2000 to direct sunlight or place it near wall heaters, space heaters, or any enclosed space prone to temperature increase (e.g., car trunk).

## WARNING – Liquid: Avoiding Electrical Shocks

Do not operate your Monster AVS 2000 if liquid of any kind is spilled onto or inside the unit. Do not operate your Monster AVS 2000 near rain or water that's spilled or openly exposed (e.g., bathtub, kitchen or bathroom sink).

## WARNING – Power Cord Safety

**A.** When routing your Monster AVS 2000 AC power cord, do not place it near heavy foot traffic areas (e.g., hallways, doorways, and kitchen floors). Do not create a trip hazard with the power cord.

**B.** If your power cord's protective jacket begins to rip or fray, exposing the internal wiring, shielding, etc., disconnect it from the power source and discontinue use of the Monster AVS 2000 immediately. Please see warranty information.

## WARNING – Proper Cleaning

In general, the only cleaning necessary for your Monster AVS 2000 is a light dusting. Unplug your component from the wall outlet before cleaning it. Do not use any type of liquid or aerosol cleaners.

## WARNING – Medical Conditions

AVS 2000 is not designed for use with any medical equipment.

# TROUBLESHOOTING

**PROBLEM** – The AVS 2000 is not receiving power.

Possible Cause #1

The AVS 2000 is not turned on.

## SOLUTION

- Make sure the AVS 2000's AC power plug is plugged into a properly grounded 120V wall outlet.
- Press the ON button on the AVS 2000.
- In some households, a wall switch may need to be thrown to make the wall outlet come alive. Try turning on the light switches located near the wall outlet powering the AVS 2000.

Possible Cause #2

Too many devices are connected, causing an overload, tripping the thermal circuit breaker. Please note: The total power consumption on all the components powered by a single AVS 2000 should not exceed 1440 watts continuous or 1800 watts peak.

## SOLUTIONS

- Disconnect any component that may be overloading the AVS 2000.
- Press the AVS 2000's thermal circuit breaker (labeled BREAKER 15A on the back panel) button in to reset. Please allow 10 minutes from the time the circuit breaker is initially tripped before attempting to reset. If you reset

too soon, the breaker will prematurely sense power overload and not allow unit to operate.

Possible Cause #3

The AVS 2000 is defective.

## SOLUTION

- Please see warranty information.

**PROBLEM** – AVS 2000 is not providing power to the components.

Possible Cause #1

The component is plugged into a "switched outlet" and the AVS 2000 has not been turned on.

## SOLUTIONS

- Press the ON button on the AVS 2000 and wait for a few seconds for the components plugged into the AVS 2000's "switched outlets" to be turned on.
- Or, plug the component into an "unswitched" outlet.

Possible Cause #2

The AVS 2000 is defective.

## SOLUTION

- Please see warranty information.

# WARRANTY INFORMATION

Register your warranty online at [monstercable.com](http://monstercable.com)

## PRODUCT WARRANTY

Home Theatre Reference Automatic Voltage Stabilizer AVS 2000 offers a Limited 2 Year Product Warranty. Monster Cable Products, Inc. warrants that this product shall be free of defects in materials and workmanship under normal use for its lifetime.

This warranty extends only to the original purchaser and is nontransferable. During the warranty period, Monster Cable Products, Inc. will, at no additional charge, repair or replace defective parts or, at the option of Monster Cable Products, Inc., replace the entire unit.

This warranty does not extend to any Monster Cable Products, Inc. product that has been damaged or rendered defective (a) as a result of accident, misuse or abuse; (b) by the use of parts not manufactured or sold by Monster Cable Products, Inc.; or (c) by modification of product. Monster's AVS 2000 does not have a Connected Equipment Guarantee as a stand-alone product because it does not include all of the necessary connections. However, when used with Monster Power PowerCenters

(this includes Monster PowerCenters HTS 2500, HTS 3000, HTS 3500, HTS 5000, HTS 2600, HTS 3600, HTS 5100 and HTS 6000), the system will have the connected equipment guarantee designated to the PowerCenter it's connected to.

## GENERAL PROVISIONS

As To Each Warranty: Any technical or other advice offered before or after delivery with respect to the use and application of the product is furnished without charge and subject to the understanding that such advice is issued at the purchaser's sole risk without any limitation or modifications of any disclaimer or other provision contained herein.

THE ABOVE ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL MONSTER CABLE PRODUCTS, INC. BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES.



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AVS 2000

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WARRANTY INFORMATION